LS-48
January 8, 1986
Edwin A. Crosbie

Location of the Injector Synchrotron Relations to the 6 GeV Light Source Ring

Figures 1 and 2 show the desired location and orientation of the injector synchrotron relative to the center of the injection straight section of the Light Source ring. The large crosses show the locations of the centers of the long straight sections of the synchrotron and the injection straight section, respectively. The injector synchrotron straight section makes an angle of 19.47° relative to the storage ring injection straight section. The total distance from the beginning of the linac to the center of the injector straight section is shown as 80 m. It makes an angle of 3° with respect to the injector synchrotron straight section.

The small crosses are the ends of bending magnets in the storage ring and the injector to ring beam line. The magnet locations in the synchrotron are not shown.

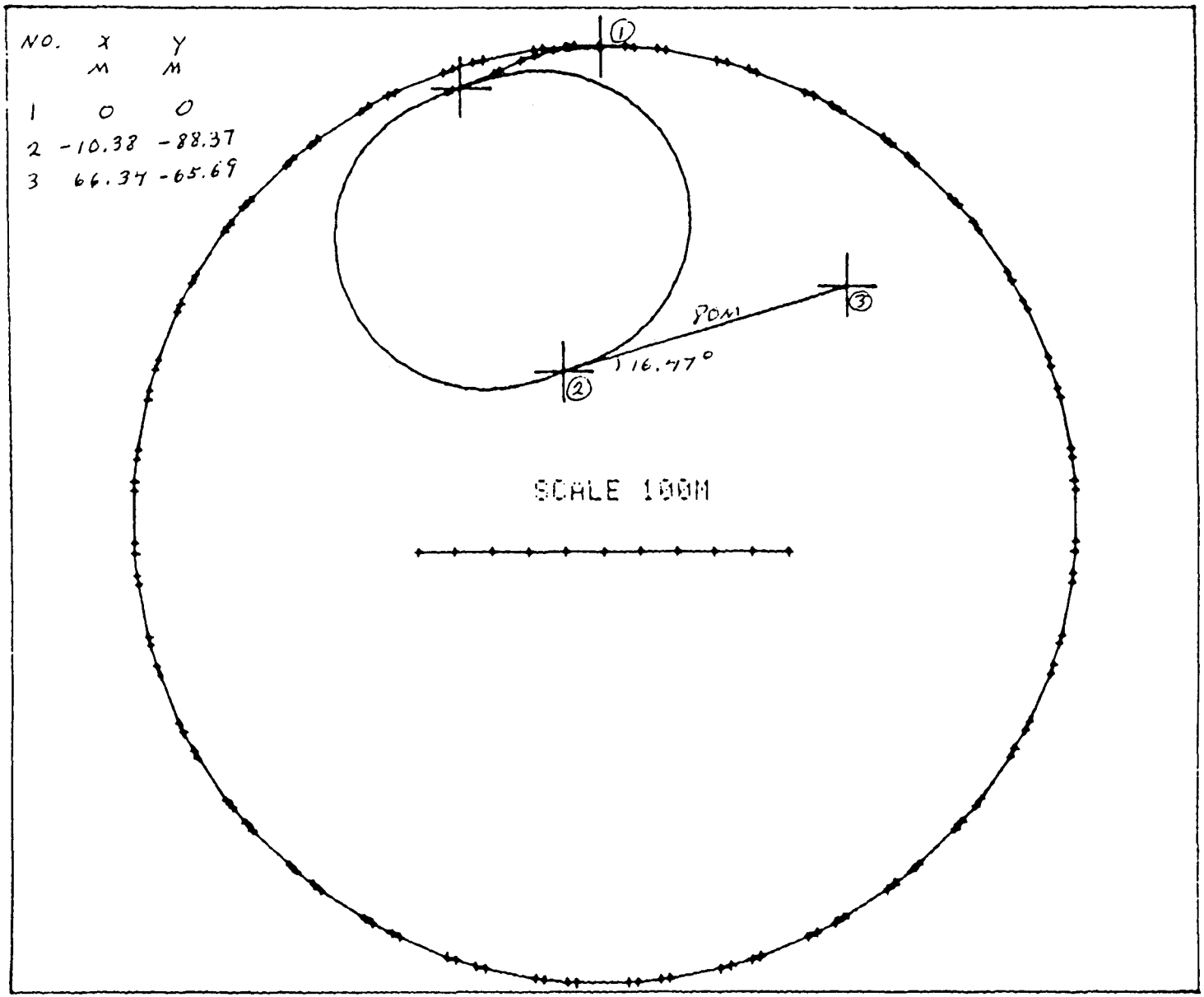

Figure 1. Injector Synchrotron Layout Inside the Storage Ring.

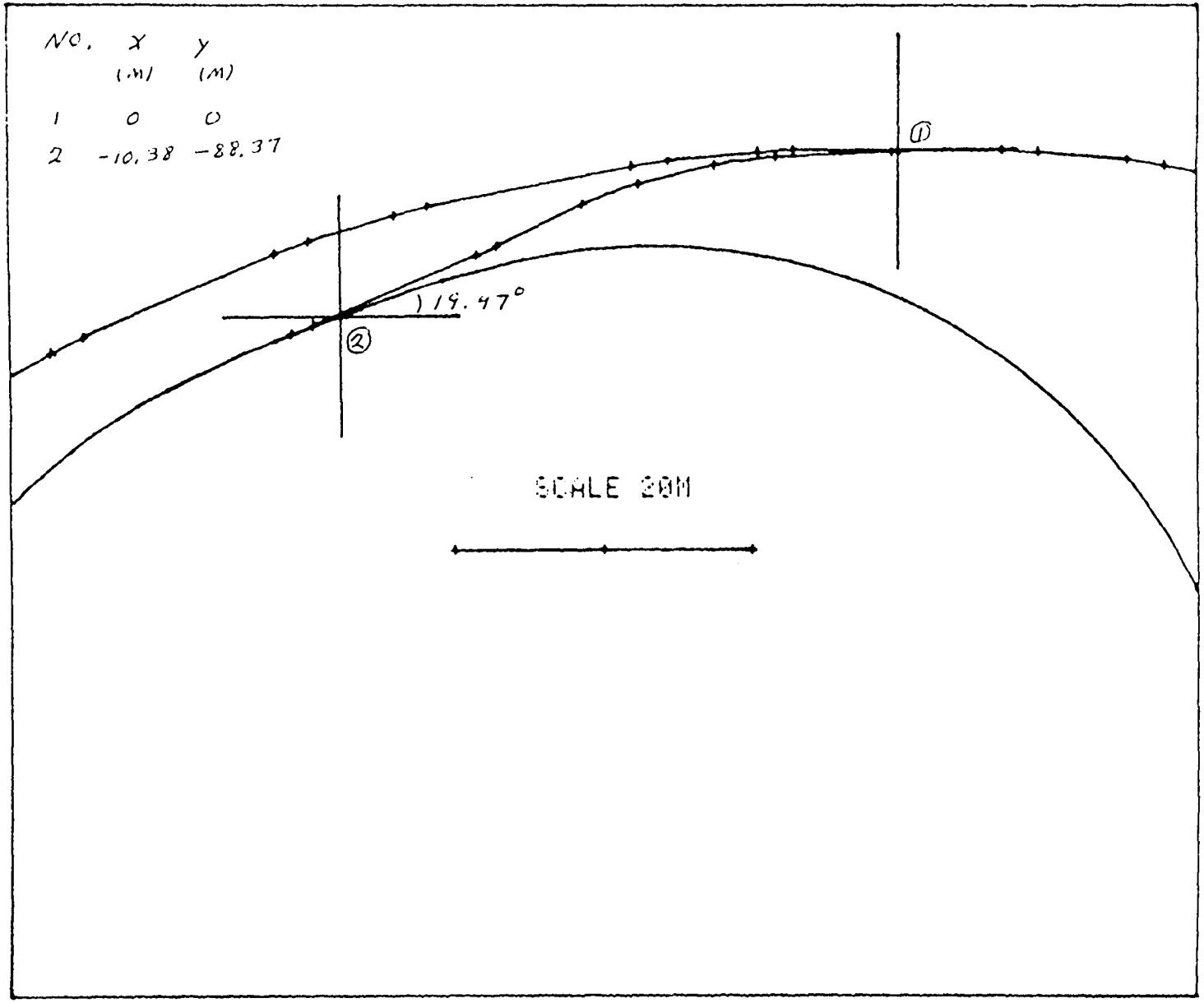

Figure 2. Transport Line from Synchrotron to the Storage Ring.